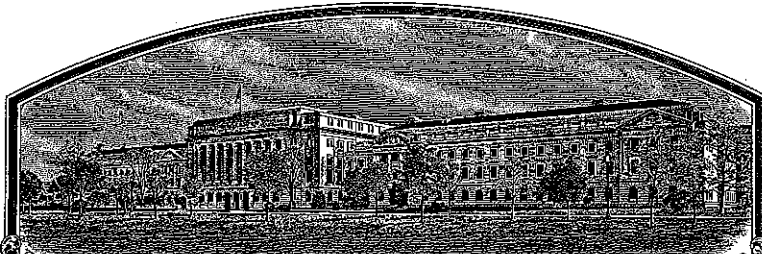


No.

200600244



# THE UNITED STATES OF AMERICA

**TO ALL TO WHOM THESE PRESENTS SHALL COME:**  
*Washington State University Research Foundation*

*Whereas*, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

**WHEAT, COMMON**

**'Masami'**

*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this fifth day of March, in the year two thousand and seven.*

*Attest:*

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

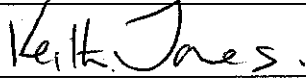
Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| 1. NAME OF OWNER<br>Washington State University Research Foundation  |  | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME<br>WA007916  |  | 3. VARIETY NAME<br>Masami  |  |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)<br>1610 NE Eastgate Blvd.<br>Pullman, WA 99163  |  | 5. TELEPHONE (include area code)<br>509-335-4363   |  | <b>FOR OFFICIAL USE ONLY</b><br>PVPO NUMBER<br><b>200600244</b><br>FILING DATE<br><b>July 24, 2006</b>   |  |
|  |  | 6. FAX (include area code)<br>509-335-7237   |  |  |  |
| 7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)<br>Corporation  |  | 8. IF INCORPORATED, GIVE STATE OF INCORPORATION<br>WA  |  | 9. DATE OF INCORPORATION<br>July 7, 1939   |  |
| 10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)<br>Dr. Keith Jones, Director<br>Washington State University Research Foundation<br>1610 NE Eastgate Blvd.<br>Pullman, WA 99163   |  |  |  | FILING AND EXAMINATION FEES:<br>\$ 4382.00<br>DATE 7/24/06<br>CERTIFICATION FEE:<br>\$ 768.00<br>DATE 11/21/2006   |  |
| 11. TELEPHONE (Include area code)<br>509-335-4363  |  | 12. FAX (Include area code)<br>509-335-7237  |  | 13. E-MAIL<br>jonesk@wsu.edu   |  |
| 14. CROP KIND (Common Name)<br>Winter wheat  |  | 16. FAMILY NAME (Botanical)<br>Gramineae   |  | 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br>IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.  |  |
| 15. GENUS AND SPECIES NAME OF CROP<br>Triticum aestivum L.   |  | 17. IS THE VARIETY A FIRST GENERATION HYBRID?<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  |  |  |
| 19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)   |  |  |  | 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)<br><input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)  |  |
| a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety<br>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness<br>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety<br>d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)<br>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership<br>f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit<br>g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)<br>h. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office) |  |  |  | 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?<br><input type="checkbox"/> YES <input type="checkbox"/> NO<br>IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED  |  |
| 23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)  |  |  |  | 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?<br><input type="checkbox"/> YES <input type="checkbox"/> NO<br>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.<br><input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED<br>(If additional explanation is necessary, please use the space indicated on the reverse.) |  |
| 24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br>IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)   |  |  |  |  |  |

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

|   |                        |                             |      |
|---|------------------------|-----------------------------|------|
| SIGNATURE OF OWNER<br> |                        | SIGNATURE OF OWNER          |      |
| NAME (Please print or type)<br>Dr. Keith Jones  |                        | NAME (Please print or type) |      |
| CAPACITY OR TITLE<br>Director, Washington State University Research Foundation                            | DATE<br>20th July 2006 | CAPACITY OR TITLE           | DATE |

(See reverse for instructions and information collection burden statement)

**GENERAL INSTRUCTIONS:** To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be **received** in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety *per se*, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to **reproduce** the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

**Plant Variety Protection Office**  
**Telephone:** (301) 504-5518 **FAX:** (301) 504-5291  
**General E-mail:** PVPmail@usda.gov  
**Homepage:** <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>

#### **SPECIFIC INSTRUCTIONS:**

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870.  
<http://www.ams.usda.gov/lsg/seed.htm>.

#### **ITEM**

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;  
 (2) the details of subsequent stages of selection and multiplication;  
 (3) evidence of uniformity and stability; and  
 (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

#### **22. CONTINUED FROM FRONT** (Please provide a statement as to the limitation and sequence of generations that may be certified.)

#### **23. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Foundation seed of Masami was sold on 8/18/05 by the Washington State Crop Improvement Association.

#### **24. CONTINUED FROM FRONT** (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

**EXHIBIT A – BREEDING HISTORY****‘MASAMI’**

**1. Genealogy:** ‘MacVicar’ (PI 552427) /PI 561031 (‘VPM’/‘Moisson 951’//2\* ‘Hill81’)

**2. Stages of Selection and Multiplication:**

**1989:** Final cross made: WSU research land

**1990:** F<sub>1</sub> generation; advanced on WSU research land; all plants uniform.

**1991:** F<sub>2</sub> bulk population; WSU research land; selected 150 random spikes; segregating for maturity, plant height, awn length and disease resistance.

**1992:** F<sub>3</sub> hill plots; WSU research land; selected 50 random spikes; segregating for maturity, plant height, awn length and disease resistance.

**1993:** F<sub>3:4</sub> head rows; WSU research land; selected row based on appropriate plant height, maturity, and disease resistance; no variants were observed within the single hill.

**1994:** F<sub>3:5</sub> single plot (tested as VO95065); WSU research land; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**1995:** F<sub>3:6</sub> Preliminary Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**1996:** F<sub>3:7</sub> Preliminary Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**1997:** F<sub>3:8</sub> State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**1998:** F<sub>3:9</sub> State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**Exhibit A – BREEDING HISTORY, cont.**

**1999:** F<sub>3:10</sub> State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**2000:** F<sub>3:11</sub> State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**2001:** F<sub>3:12</sub> State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality..

**2002:** F<sub>3:13</sub> WSU Commercial Variety Trial, State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

**2003:** F<sub>3:14</sub> WSU Commercial Variety Trial, State Advanced Yield Trial; replicated yield trial at multiple locations in Washington State; selection based on field resistance to stripe rust and foot rot, test weight, grain yield, and milling/baking quality.

Individual F<sub>3:14</sub> heads (2000) of WA007916 were hand threshed and separately planted in 10 ft row (headrows) in October 2003 with irrigation in Othello, WA for Breeder seed production. Breeder seed was bulk harvested from a reselection of the headrow block, based on uniformity, in August 2004 and planted October 2004 for Foundation seed production.

**2004:** WA007916 released as the cultivar 'Masami': PI 634715

### **3. Evidence of Uniformity and Stability:**

Except as noted below, Masami has been observed to be stable and uniform with respect to plant morphology since 1993 as an F<sub>3</sub>-derived line. This represents thirteen generations (1993- 2005) through which this stability and uniformity have been observed.

Based on evaluations of Breeder and Foundation seed lots, Masami may contain up to a total of 1 in 10,000 (0.01% combined) of the following naturally occurring variants: (1) awnless spike, (2) red seed color, (3) leaf color (yellow-green) and (4) reaction to physiological leaf spot (more or less severe). In addition to the above variants the following observation may be made: (1) height variation (2" to 10" taller) may occur at the rate of 1 in 10,000 for heads that are otherwise typical of this variety. Height variation will be noticeable under higher yielding environments. (2) awn length may be variable (awnletted to normal). (3) awn color (red or tan).

These variants described are distinct within the variety and are stable and predictable with a degree of reliability comparable to other varieties of the same kind, and within recognized tolerances when the variety is reproduced or reconstructed and was originally part of the variety when released.

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**4. Variants during reproduction:**

Based on evaluations of experimental, Breeder and Foundation seed lots, no variants other than those noted previously were observed in Masami. Aberrant progeny are rogued from seedstock fields to ensure continued uniformity and stability, but they will continue to occur in every generation.



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A black and white photograph of three rice plants in pots. The plants are tall with long, narrow leaves and several panicles (seed heads) at the top. They are arranged side-by-side against a light background. Each plant is in a dark pot, and a small white label is visible on the stem of each. The labels at the bottom identify them as Eltan, Masami, and Madsen.

Eltan

Masami

Madsen

**EXHIBIT B – STATEMENT OF DISTINCTNESS**

Masami is most similar to Madsen and Eltan, which it is intended to supplant in the semi-arid production regions of eastern Washington State.

**A. Agronomic Characteristics:**

Coleoptile length for Masami, Eltan and Madsen are described below. Coleoptile length analysis consists of measuring 10 samples for each variety each year.

1. Analysis of variance combined over two years and two trials indicate that Masami has a significantly longer coleoptile than Madsen and Eltan under uniform growth chamber conditions. Data for each variety are shown in Table A1.

**Table A1.** Coleoptile length (mm) of Masami, Madsen and Eltan in growth chamber tests.

|                     | 2002<br>n=10 | 2003<br>n=10 | Mean | N  | t<br>Grouping |
|---------------------|--------------|--------------|------|----|---------------|
| Masami              | 72.9         | 88.2         | 80.6 | 20 | A             |
| Eltan               | 64.0         | 77.6         | 70.8 | 20 | B             |
| Madsen              | 46.6         | 70.6         | 58.5 | 20 | C             |
| LSD (0.05)          | 7.99         | 9.3          | 8.3  |    |               |
| Critical value of t | 2.05         | 2.05         | 2.00 |    |               |
| CV                  | 14.2         | 9.4          | 18.4 |    |               |

\*Combined analysis of variance was conducted after the assumptions for combining data were met (variances were homogenous and the data was distributed normally).

**B. Genetic Characteristics**

The uniqueness of Masami as compared to Eltan is confirmed by two microsatellite loci, Xgwm304 and Xgwm174 (Figure 1A). It is unique to Madsen as confirmed by microsatellite loci Xgwm427 and Xbarc115 (Figure 1B).

**References:**

Röder, MS, V Korzun, K Wendehake, J Plaschke, M-H Tixier, P. Leroy, and MW Ganal. 1998. A microsatellite map of wheat. *Genetics* 149:2007-2023.



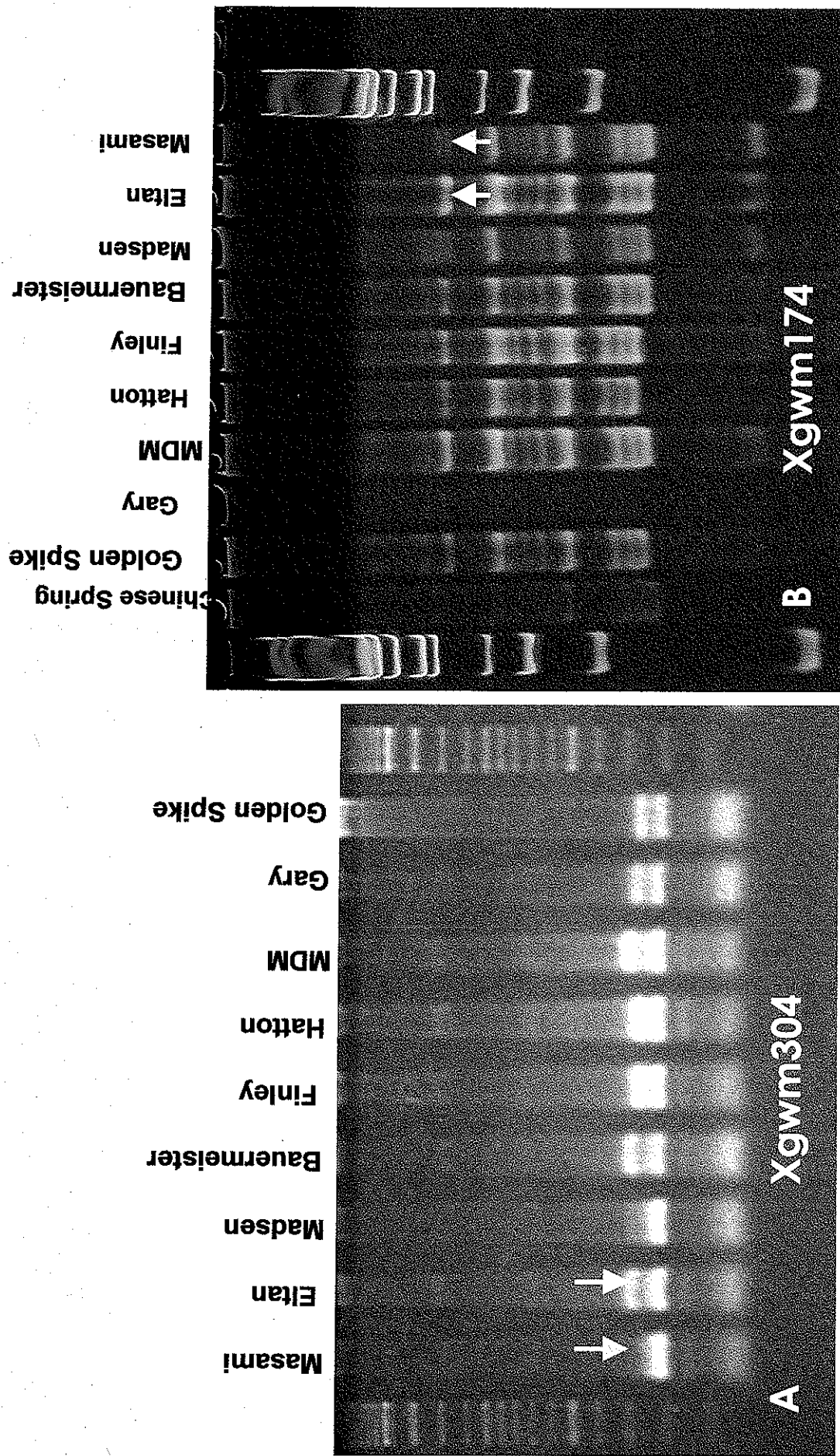


Figure 1. Nucleotide sequence distinctiveness of Masami from cultivar Eltan, as evidenced by microsatellite DNA markers.

- A) In PCR using primers for marker Xgwm304, Eltan produces a fragment (white arrow) not present in Masami (indicated with a yellow arrow).
- B) PCR with primers for marker Xgwm174 produces a 233 bp fragment in Masami not present in Eltan.

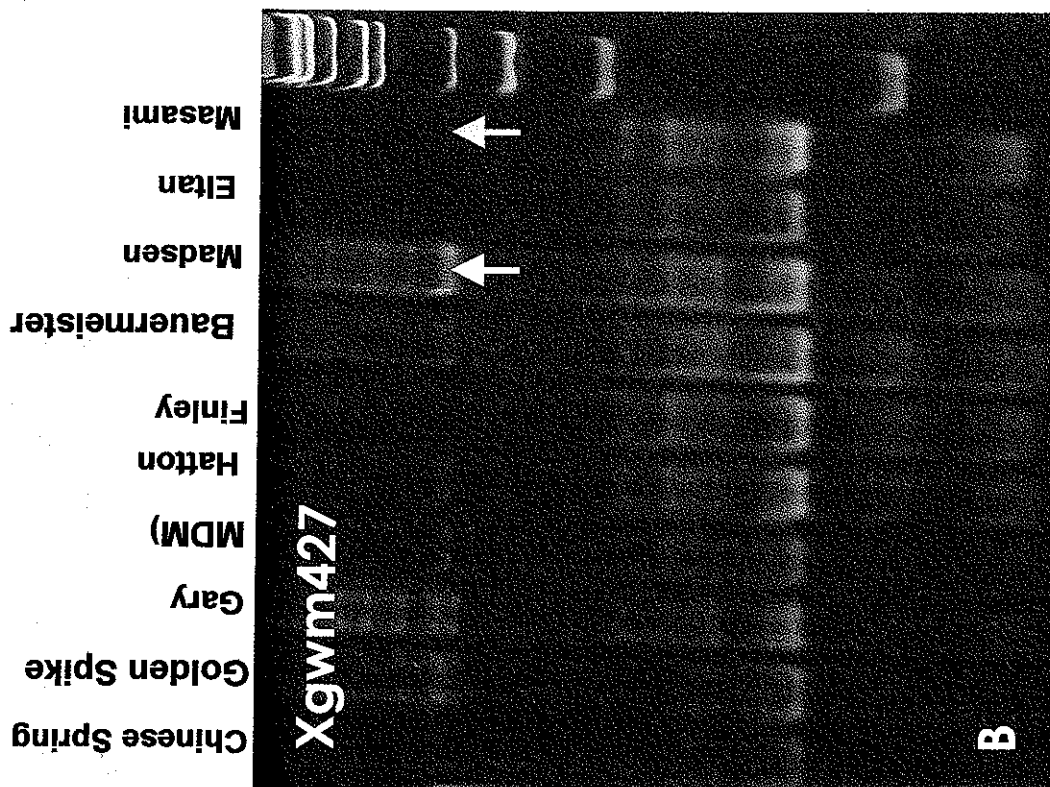
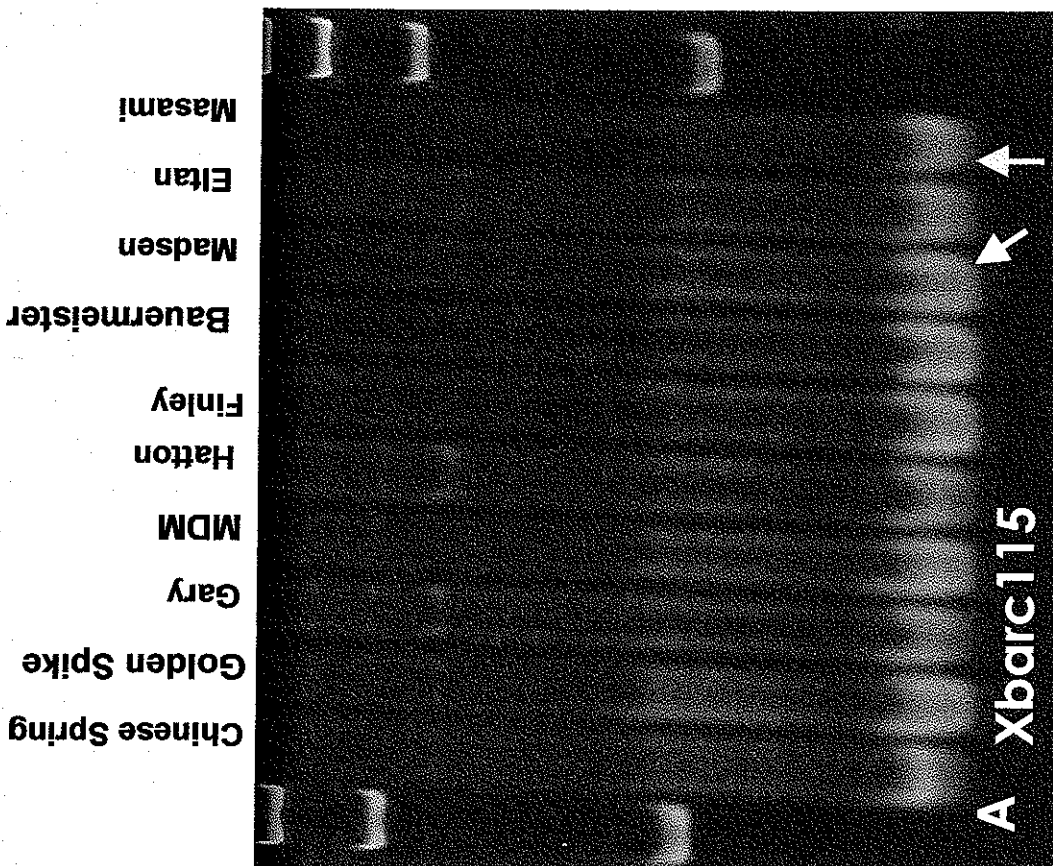


Figure 2. Nucleotide sequence distinctiveness of Masami from Madsen, as evidenced by microsatellite loci Xbarc115 and Xgwm427, Madsen produces a fragment (white arrow) not present in Masami (indicated with a yellow arrow).

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According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705**

**Exhibit C**

**OBJECTIVE DESCRIPTION OF VARIETY  
Wheat (*Triticum* spp.)**

|   |  |   |
|---|--|---|
| <b>NAME OF APPLICANT (S)</b><br>Washington State University   | <b>TEMPORARY OR EXPERIMENTAL DESIGNATION</b><br>WA007916 | <b>VARIETY NAME</b><br>Masami                                       |
| <b>ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)</b><br>Dr. Keith Jones, Director<br>Washington State University Research Foundation<br>1610 NE Eastgate Blvd.<br>Pullman, WA 99163 |  | <b>FOR OFFICIAL USE ONLY</b><br><br><b>PVPO NUMBER</b><br>200600244 |

**PLEASE READ ALL INSTRUCTIONS CAREFULLY:**

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., 

|   |   |   |
|---|---|---|
| 0 | 9 | 9 |
|---|---|---|

 or 

|   |   |
|---|---|
| 0 | 9 |
|---|---|

) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: \_\_\_\_\_ Please answer all questions for your variety; lack of response may delay progress of your application.

**1. KIND:**

**2. VERNALIZATION:**

- |   |
|---|
| 1 |
|---|

 1 = Common  
2 = Durum  
3 = Club  
4 = Other (Specify) \_\_\_\_\_

- |   |
|---|
| 2 |
|---|

 1 = Spring  
2 = Winter  
3 = Other (Specify) \_\_\_\_\_

**3. COLEOPTILE ANTHOCYANIN:**

**4. JUVENILE PLANT GROWTH:**

- |   |
|---|
| 1 |
|---|

 1 = Absent 2 = Present

- |   |
|---|
| 2 |
|---|

 1 = Prostrate 2 = Semi-Erect 3 = Erect

**5. PLANT COLOR: (boot stage)**

**6. FLAG LEAF: (boot stage)**

- |   |
|---|
| 2 |
|---|

 1 = Yellow-Green  
2 = Green  
3 = Blue-Green

- |   |
|---|
| 2 |
|---|

 1 = Erect 2 = Recurved  

|   |
|---|
| 2 |
|---|

 1 = Not Twisted 2 = Twisted  

|   |
|---|
| 2 |
|---|

 1 = Wax Absent 2 = Wax Present

**7. EAR EMERGENCE:**

- |   |   |   |
|---|---|---|
| 1 | 5 | 7 |
|---|---|---|

 Number of Days (Average)  

|   |   |
|---|---|
| 0 | 2 |
|---|---|

 Number of Days Earlier Than \* Eltan  
Same As \* Madsen  

|  |  |
|--|--|
|  |  |
|--|--|

 Number of Days Later Than \*  
\*Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial

**8. ANTHOR COLOR:**

- |   |
|---|
| 1 |
|---|

 1 = Yellow 2 = Purple

**9. PLANT HEIGHT:** (from soil to top of head, excluding awns)

200600244

cm (Average)

cm Taller Than Madsen \*

Same As \_\_\_\_\_ \*

cm Shorter Than Eltan \***10. STEM:****A. ANTHOCYANIN**

1 = Absent    2 = Present

**B. WAXY BLOOM**

1 = Absent    2 = Present

**C. HAIRINESS** (last internode of rachis)

1 = Absent    2 = Present

**D. INTERNODE**

1 = Hollow    2 = Semi-Solid    3 = Solid

Number of Nodes

**E. PEDUNCLE**

1 = Erect    2 = Recurved    3 = Semi-Erect

cm Length

**F. AURICLE**

Anthocyanin:    1 = Absent    2 = Present

Hair:    1 = Absent    2 = Present

**11. HEAD: (At Maturity)****A. DENSITY**1 = Lax  
2 = Middense (Laxidense)  
3 = Dense**B. SHAPE**1 = Tapering  
2 = Strap  
3 = Clavate  
4 = Other (Specify) Fusiform**C. CURVATURE**1 = Erect  
2 = Inclined  
3 = Recurved**D. AWNEDNESS**1 = Awnless  
2 = Apically Awnletted  
3 = Awnletted  
4 = Awned**12. GLUMES: (At Maturity)****A. COLOR**1 = White  
2 = Tan  
3 = Other (Specify) \_\_\_\_\_**B. SHOULDER**1 = Wanting    2 = Oblique  
3 = Rounded    4 = Square  
5 = Elevated    6 = Apiculate  
7 = Other (Specify) \_\_\_\_\_**C. SHOULDER WIDTH**1 = Narrow  
2 = Medium  
3 = Wide**D. BEAK**1 = Obtuse  
2 = Acute  
3 = Acuminate**E. BEAK WIDTH**1 = Narrow  
2 = Medium  
3 = Wide**F. GLUME LENGTH**1 = Short (ca. 7 mm)  
2 = Medium (ca. 8 mm)  
3 = Long (ca. 9 mm)**G. WIDTH**1 = Narrow (ca. 3 mm)  
2 = Medium (ca. 3.5 mm)  
3 = Wide (ca. 4 mm)**H. PUBESCENCE**1 = Not Present  
2 = Present

## 13. SEED:

200600244

## A. SHAPE

- ☐ 1 = Ovate  
☐ 2 = Oval  
☐ 3 = Elliptical

## B. CHEEK

- ☐ 1 = Rounded  
☐ 2 = Angular

## C. BRUSH

- ☐ 1 = Short  
☐ 2 = Medium  
☐ 3 = Long
- ☐ 1 = Not Collared  
☐ 2 = Collared

## D. CREASE

- ☐ 2 = 1 = Width 60% or less of Kernel  
☐ 2 = Width 80% or less of Kernel  
☐ 3 = Width Nearly as Wide as Kernel

- ☐ 2 = 1 = Depth 20% or less of Kernel  
☐ 2 = Depth 35% or less of Kernel  
☐ 3 = Depth 50% or less of Kernel

## E. COLOR

- ☐ 1 = White  
☐ 2 = Amber  
☐ 3 = Red  
☐ 4 = Other (Specify) \_\_\_\_\_

## F. TEXTURE

- ☐ 2 = 1 = Hard  
☐ 2 = Soft  
☐ 3 = Other (Specify) \_\_\_\_\_

## G. PHENOL REACTION (See Instructions)

- ☐ 1 = Ivory  
☐ 2 = Fawn  
☐ 3 = Light Brown  
☐ 4 = Dark Brown  
☐ 5 = Black

## H. SEED WEIGHT

- ☐ 3 ☐ 6 g/1000 Seed (whole number only)

## I. GERM SIZE

- ☐ 2 = 1 = Small  
☐ 2 = Midsize  
☐ 3 = Large

## 14. DISEASE: PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

(0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

- |   |   |
|---|---|
| <input type="checkbox"/> 0 Stem Rust ( <i>Puccinia graminis</i> f. sp. <i>tritici</i> ) | <input type="checkbox"/> 2 Leaf Rust ( <i>Puccinia recondita</i> f. sp. <i>tritici</i> )                      |
| <input type="checkbox"/> 2 Stripe Rust ( <i>Puccinia striiformis</i> )                  | <input type="checkbox"/> 0 Loose Smut ( <i>Ustilago tritici</i> )   |
| <input type="checkbox"/> 0 Tan Spot ( <i>Pyrenophora tritici-repentis</i> )             | <input type="checkbox"/> 0 Flag Smut ( <i>Urocystis agropyri</i> )  |
| <input type="checkbox"/> 0 Halo Spot ( <i>Selenophoma donacis</i> )                     | <input type="checkbox"/> 0 Common Bunt ( <i>Tilletia tritici</i> or <i>T. laevis</i> )                        |
| <input type="checkbox"/> 0 <i>Septoria nodorum</i> (Glume Blotch)                       | <input type="checkbox"/> 3 Dwarf Bunt ( <i>Tilletia controversa</i> )   |
| <input type="checkbox"/> 0 <i>Septoria avenae</i> (Speckled Leaf Disease)               | <input type="checkbox"/> 0 Karnal Bunt ( <i>Tilletia indica</i> )   |
| <input type="checkbox"/> 0 <i>Septoria tritici</i> (Speckled Leaf Blotch)               | <input type="checkbox"/> 2 Powdery Mildew ( <i>Erysiphe graminis</i> f. sp. <i>tritici</i> )                  |
| <input type="checkbox"/> 0 Scab ( <i>Fusarium</i> spp.)                                 | <input type="checkbox"/> 3 "Snow Molds"   |
| <input type="checkbox"/> 0 "Black Point" (Kernel Smudge)                                | <input type="checkbox"/> 0 Common Root Rot ( <i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.) |
| <input type="checkbox"/> 0 Barley Yellow Dwarf Virus (BYDV)                             | <input type="checkbox"/> 0 Rhizoctonia Root Rot ( <i>Rhizoctonia solani</i> )                                 |
| <input type="checkbox"/> 0 Soilborne Mosaic Virus (SBMV)                                | <input type="checkbox"/> 0 Black Chaff ( <i>Xanthomonas campestris</i> pv. <i>translucens</i> )               |
| <input type="checkbox"/> 0 Wheat Yellow (Spindle Streak) Mosaic Virus                   | <input type="checkbox"/> 0 Bacterial Leaf Blight ( <i>Pseudomonas syringae</i> pv. <i>syringae</i> )          |
| <input type="checkbox"/> 0 Wheat Streak Mosaic Virus (WSMV)                             | <input type="checkbox"/> 2 Strawbreaker foot rot ( <i>Pseudocercospora herpotrichoides</i> )                  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |
| <input type="checkbox"/> Other (Specify) _____  | <input type="checkbox"/> Other (Specify) _____  |

## 15. INSECT: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

- |  |  |
|--|--|
| <input type="checkbox"/> 0 Hessian Fly ( <i>Mayetiola destructor</i> )   | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> 0 Stem Sawfly ( <i>Cephus</i> spp.)             | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> 0 Cereal Leaf Beetle ( <i>Oulema melanopa</i> ) | <input type="checkbox"/> Other (Specify) _____ |

15. INSECT: (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE SPECIFY BIOTYPE (Where Needed)

|                            |  |                          |                       |
|----------------------------|--|--------------------------|-----------------------|
| <input type="checkbox"/> 0 | Russian Aphid ( <i>Diuraphis noxia</i> ) | <input type="checkbox"/> | Other (Specify) _____ |
| <input type="checkbox"/> 0 | Greenbug ( <i>Schizaphis graminum</i> )  | <input type="checkbox"/> | Other (Specify) _____ |
| <input type="checkbox"/> 0 | Aphids                                   | <input type="checkbox"/> | Other (Specify) _____ |

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

**EXHIBIT D. OPTIONAL SUPPORTING INFORMATION****Milling and Baking Quality:**

Masami has test weight similar to Madsen and Stephens, but slightly less than Lewjain. Its kernel hardness (SK Hardness) is greater than Stephens and Lewjain, but less than Madsen while its kernel weight (SK Weight) is similar to Madsen and Lewjain, but less than Stephens. The milling quality (Mill Score) of Masami is similar to Madsen, Stephens and Lewjain. The RVA values of Masami are typical of a non-waxy type wheat and similar to the check varieties. Its protein strength (Mixograph Abs) is less than Madsen, but equal to Stephens and Lewjain. The cookie diameter of Masami is superior to Madsen and Stephens, but less than Lewjain. Its sponge cake volume is equal to Lewjain and greater than Madsen and Stephens. In conclusion, Masami is a nice compliment to Stephens and Lewjain, two quality soft white winter wheats, and superior in end-use quality to Madsen (Table D1).



Table D1. End-use quality assessment of Masami when summarized by rainfall zones.

Table D1: Means, least significant difference (LSD) and number of pairwise comparisons made (N) for various milling and baking characteristics between Masami and check varieties Madsen, Stephens and Lewjain when summarized by rainfall zones.

| COMPARISON | TEST WEIGHT |       |      | SK HARDNESS |       |       | SK WEIGHT |       |       | WHEAT PROTEIN |       |      | FLOUR YIELD |       |       | BREAK FLOUR |       |       | MILL SCORE |       |       |
|------------|-------------|-------|------|-------------|-------|-------|-----------|-------|-------|---------------|-------|------|-------------|-------|-------|-------------|-------|-------|------------|-------|-------|
| RAINFALL   | <16         | 16-20 | >20  | <16         | 16-20 | >20   | <16       | 16-20 | >20   | <16           | 16-20 | >20  | <16         | 16-20 | >20   | <16         | 16-20 | >20   | <16        | 16-20 | >20   |
| Masami     | 61.3        | 61.5  | 60.5 | 33.5*       | 37.9  | 32.0* | 34.9      | 35.7  | 37.4  | 9.8*          | 9.9*  | 10.0 | 68.1        | 68.2  | 68.4  | 49.7*       | 50.0  | 50.5  | 83.0       | 84.4  | 85.0  |
| Madsen     | 61.3        | 61.4  | 60.3 | 39.2        | 41.9  | 37.7  | 35.0      | 35.3  | 37.2  | 10.5          | 10.6  | 10.7 | 68.1        | 65.7* | 67.9  | 48.4        | 49.8  | 48.9  | 82.1       | 84.6  | 83.9  |
| LSD        | 0.54        | 1.03  | 0.54 | 3.00        | 4.69  | 2.34  | 1.41      | 2.63  | 1.74  | 0.45          | 0.69  | 0.92 | 0.61        | 0.38  | 0.80  | 0.84        | 0.42  | 1.03  | 1.47       | 1.79  | 1.69  |
| N          | 17          | 7     | 8    | 17          | 7     | 8     | 17        | 7     | 8     | 17            | 7     | 8    | 17          | 7     | 8     | 17          | 7     | 8     | 17         | 7     | 8     |
| RAINFALL   | <16         | 16-20 | >20  | <16         | 16-20 | >20   | <16       | 16-20 | >20   | <16           | 16-20 | >20  | <16         | 16-20 | >20   | <16         | 16-20 | >20   | <16        | 16-20 | >20   |
| Masami     | 61.2        | 61.5  | 60.2 | 33.6*       | 37.9  | 32.0* | 34.9      | 35.7  | 37.4  | 9.8*          | 9.9*  | 10.0 | 68.2        | 68.2  | 68.4  | 49.8*       | 50.0* | 50.5* | 83.2       | 84.4  | 85.0  |
| Stephens   | 60.9        | 60.6  | 60.4 | 27.1        | 31.1  | 25.6  | 43.8*     | 42.9* | 47.6* | 10.6          | 10.6  | 10.5 | 67.9        | 68.4  | 68.0  | 46.7        | 47.3  | 46.1  | 82.1       | 83.5  | 85.7  |
| LSD        | 0.77        | 2.45  | 0.79 | 2.73        | 3.66  | 3.76  | 1.90      | 2.45  | 2.40  | 0.38          | 0.64  | 0.66 | 0.59        | 1.30  | 1.13  | 1.05        | 1.34  | 3.83  | 3.37       | 2.49  | 2.29  |
| N          | 16          | 7     | 8    | 16          | 7     | 8     | 16        | 7     | 8     | 16            | 7     | 8    | 16          | 7     | 8     | 16          | 7     | 8     | 16         | 7     | 8     |
| RAINFALL   | <16         | 16-20 | >20  | <16         | 16-20 | >20   | <16       | 16-20 | >20   | <16           | 16-20 | >20  | <16         | 16-20 | >20   | <16         | 16-20 | >20   | <16        | 16-20 | >20   |
| Masami     | 61.4        | 62.0  | 60.7 | 34.5        | 37.0  | 34.3  | 35.6      | 37.3  | 38.4* | 9.9           | 9.4   | 9.5  | 68.2        | 69.2  | 69.3* | 49.6        | 49.5  | 50.8* | 83.4       | 86.3  | 87.2* |
| Lewjain    | 62.6*       | 62.3  | 61.4 | 29.4*       | 24.8  | 26.2* | 35.2      | 32.4  | 35.4  | 10.2          | 9.7   | 9.7  | 68.0        | 69.0  | 68.0  | 48.8        | 49.3  | 49.6  | 84.4       | 86.2  | 85.3  |
| LSD        | 0.64        | 1.90  | 0.89 | 2.36        | 7.58  | 3.96  | 2.50      | 7.05  | 2.26  | 0.46          | 1.97  | 0.57 | 0.97        | 0.50  | 0.67  | 1.10        | 1.40  | 1.10  | 2.10       | 1.60  | 1.94  |
| N          | 12          | 3     | 6    | 12          | 3     | 6     | 12        | 3     | 6     | 12            | 3     | 6    | 12          | 3     | 6     | 12          | 3     | 6     | 12         | 3     | 6     |

| COMPARISON | FLOUR ASH |       |      | FLOUR PROTEIN |       |      | RVA   |        |        | MIXOGRAPH ABS |       |      | COOKIE DIAMETER |       |      | CAKE VOLUME |        |         |
|------------|-----------|-------|------|---------------|-------|------|-------|--------|--------|---------------|-------|------|-----------------|-------|------|-------------|--------|---------|
| RAINFALL   | <16       | 16-20 | >20  | <16           | 16-20 | >20  | <16   | 16-20  | >20    | <16           | 16-20 | >20  | <16             | 16-20 | >20  | <16         | 16-20  | >20     |
| Masami     | 0.39      | 0.37  | 0.37 | 8.1*          | 7.7*  | 8.0  | 132.0 | 130.7  | 130.7  | 54.2          | 53.2* | 54.1 | 9.4*            | 9.4*  | 9.4* | 1320.0*     | 1280.0 | 1293.8* |
| Madsen     | 0.40      | 0.38  | 0.37 | 9.1           | 9.0   | 9.0  | 128.3 | 109.3  | 109.3  | 54.5          | 54.4  | 54.7 | 9.3             | 9.2   | 9.2  | 1221.0      | 1220.0 | 1238.8  |
| LSD        | 0.02      | 0.02  | 0.03 | 0.41          | 0.42  | 0.79 | 20.08 | 68.68  | 68.68  | 0.70          | 1.13  | 1.46 | 0.08            | 0.16  | 0.16 | 76.09       | 41.09  | 41.09   |
| N          | 17        | 7     | 8    | 17            | 7     | 8    | 3     | 3      | 3      | 17            | 7     | 8    | 17              | 7     | 8    | 5           | 1      | 4       |
| RAINFALL   | <16       | 16-20 | >20  | <16           | 16-20 | >20  | <16   | 16-20  | >20    | <16           | 16-20 | >20  | <16             | 16-20 | >20  | <16         | 16-20  | >20     |
| Masami     | 0.39      | 0.37  | 0.37 | 8.0*          | 7.7*  | 8.0  | 132.0 | 130.7  | 130.7  | 54.2          | 53.2  | 54.1 | 9.4*            | 9.4*  | 9.4  | 1320.0*     | 1280.0 | 1293.8* |
| Stephens   | 0.40      | 0.39  | 0.35 | 8.9           | 8.7   | 8.5  | 131.7 | 130.3  | 130.3  | 54.8          | 54.2  | 54.3 | 9.3             | 9.3   | 9.4  | 1244.0      | 1245.0 | 1255.0  |
| LSD        | 0.05      | 0.02  | 0.03 | 0.33          | 0.61  | 0.65 | 38.99 | 29.95  | 29.95  | 0.88          | 2.45  | 1.03 | 0.09            | 0.12  | 0.11 | 64.58       | 18.80  | 18.80   |
| N          | 16        | 7     | 8    | 16            | 7     | 8    | 3     | 3      | 3      | 16            | 7     | 8    | 16              | 7     | 8    | 5           | 1      | 4       |
| RAINFALL   | <16       | 16-20 | >20  | <16           | 16-20 | >20  | <16   | 16-20  | >20    | <16           | 16-20 | >20  | <16             | 16-20 | >20  | <16         | 16-20  | >20     |
| Masami     | 0.39      | 0.36  | 0.35 | 8.3*          | 7.3   | 7.7  | 123.5 | 137.5  | 137.5  | 55.0          | 53.6  | 53.3 | 9.3             | 9.3   | 9.3  | 1297.5      | 1262.5 | 1262.5  |
| Lewjain    | 0.37      | 0.36  | 0.35 | 8.7           | 8.0   | 8.1  | 115.0 | 119.5  | 119.5  | 55.1          | 54.1  | 54.2 | 9.4             | 9.3   | 9.5  | 1306.3      | 1290.0 | 1290.0  |
| LSD        | 0.03      | 0.01  | 0.04 | 0.39          | 1.74  | 0.51 | 82.59 | 114.40 | 114.40 | 0.70          | 3.80  | 1.03 | 0.12            | 0.31  | 0.20 | 94.89       | 95.30  | 95.30   |
| N          | 12        | 3     | 6    | 12            | 3     | 6    | 2     | 2      | 2      | 11            | 3     | 5    | 12              | 3     | 6    | 4           | 4      | 2       |

\* Significantly different at alpha = 0.05.

200600244

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

|   |   |  |
|---|---|--|
| 1. NAME OF APPLICANT(S)<br><br>Washington State University Research Foundation  | 2. TEMPORARY DESIGNATION<br>OR EXPERIMENTAL NUMBER<br><br>WA00916 | 3. VARIETY NAME<br><br>Masami                    |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)<br><br>Dr. Keith Jones, Director<br>Washington State University Research Foundation<br>1610 NE Eastgate Blvd. (Mail Stop 1802)<br>Pullman, WA 99163 | 5. TELEPHONE (Include area code)<br><br>(509) 335-4363            | 6. FAX (Include area code)<br><br>(509) 335-7237 |
|   | 7. PVPO NUMBER<br><br><b>200600244</b>                            |  |

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.



YES



NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.



YES



NO

10. Is the applicant the original owner?



YES



NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?



YES



NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?



YES



NO

If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Masami was developed by Dr. Stephen S. Jones, winter wheat breeder and geneticist at Washington State University.  
Washington State University's ownership interests are assigned to the Washington State University Research Foundation.

**PLEASE NOTE:**

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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